

3632

PATENT APPLICATION

41 IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Attorney Docket No.: 47636.2.0

Lori Greiner

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Application No.: 10/068,811

Examiner: Jonathon A. Szumny

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February 6, 2002

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**GROUP 3600**

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. § 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed before the mailing date of a first office action after the filing of a request for continued examination under 37 C.F.R. § 1.114. Please credit or debit Deposit Account No. 06-1910 as needed to ensure consideration of the disclosed information.

By submitting these references, Applicant does not admit that the references are prior art to or material to this application, and reserves the right to establish that any reference is not prior art. Applicant does not represent that the references have been reviewed in detail; there may be details in the references of which Applicant is unaware.

Respectfully submitted,



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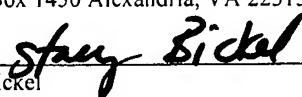
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Stacy Bickel

| <b>INFORMATION DISCLOSURE CITATION</b><br>(Use several sheets if necessary)   |  |                 | ATTY. DOCKET NO.<br>47636.2.0 |               | SERIAL NO.<br>10/068,811 |          |                            |
|---|--|-----------------|-------------------------------|---------------|--------------------------|----------|----------------------------|
|   |  |                 | APPLICANT<br>Lori Greiner     |               |                          |          |                            |
|   |  |                 | FILING<br>February 6, 2002    |               | GROUP<br>3632            |          |                            |
| <b>U.S. PATENT DOCUMENTS</b>  |  |                 |                               |               |                          |          |                            |
| EXAMINER INITIAL  |  | DOCUMENT NUMBER | DATE                          | NAME          | CLASS                    | SUBCLASS | FILING DATE IF APPROPRIATE |
|   |  | 2,513,150       | Jun. 27, 1950                 | E. W. Davis   |                          |          |                            |
|   |  | 3,078,133       | Feb. 19, 1963                 | W. E. Schauer |                          |          |                            |
|   |  | 3,876,271       | Apr. 8, 1975                  | Skirlock      |                          |          |                            |
|   |  | 4,239,308       | Dec. 16, 1980                 | Bradley       |                          |          |                            |
|   |  | 4,396,121       | Aug. 2, 1983                  | Lemmon        |                          |          |                            |
|   |  | 4,616,891       | Oct. 14, 1986                 | Jantzen       |                          |          |                            |
|   |  | 4,811,996       | Mar. 14, 1989                 | Hansson       |                          |          |                            |
|   |  | 4,854,656       | Aug. 8, 1989                  | O'Keefe       |                          |          |                            |
|   |  | 4,984,854       | Jan. 15, 1991                 | DeLavallade   |                          |          |                            |
|   |  | 5,117,971       | Jun. 2, 1992                  | Fisher        |                          |          |                            |
|   |  | 5,261,529       | Nov. 16, 1993                 | Holland       |                          |          |                            |
|   |  | 5,358,100       | Oct. 25, 1994                 | Wolff         |                          |          |                            |
| <b>FOREIGN PATENT DOCUMENTS</b>   |  |                 |                               |               |                          |          |                            |
|   |  | DOCUMENT NUMBER | DATE                          | COUNTRY       | CLASS                    | SUBCLASS | TRANSLATION                |
|   |  |                 |                               |               |                          |          | YES                        |
|   |  | 940,540         | 15 Dec. 1948                  | France        |                          |          | N                          |
|   |  |                 |                               |               |                          |          |                            |
|   |  |                 |                               |               |                          |          |                            |
|   |  |                 |                               |               |                          |          |                            |
| <b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b> |  |                 |                               |               |                          |          |                            |
|   |  |                 |                               |               |                          |          |                            |
|   |  |                 |                               |               |                          |          |                            |
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| <p style="text-align: center;"><b>INFORMATION DISCLOSURE CITATION</b><br/> <small>(Use several sheets if necessary)</small></p> <p style="text-align: center;">FEB 06 2004</p> <p style="text-align: center;">U.S. PATENT DOCUMENTS</p>  |                 |                 | ATTY. DOCKET NO.<br>47636.2.0 |       | SERIAL NO.<br>10/068,811 |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
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|  |                 |                 | APPLICANT<br>Lori Greiner     |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  |                 |                 | FILING<br>February 6, 2002    |       | GROUP<br>3632            |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
| <table border="1"> <thead> <tr> <th>EXAMINER INITIAL</th> <th>DOCUMENT NUMBER</th> <th>DATE</th> <th>NAME</th> <th>CLASS</th> <th>SUBCLASS</th> <th colspan="2">FILING DATE IF APPROPRIATE</th> </tr> </thead> <tbody> <tr><td></td><td>5,411,139</td><td>May 2, 1995</td><td>Victory</td><td></td><td></td><td colspan="2"></td></tr> <tr><td></td><td>5,511,873</td><td>Apr. 30, 1996</td><td>Mech</td><td></td><td></td><td colspan="2"></td></tr> <tr><td></td><td>5,558,418</td><td>Sep. 24, 1996</td><td>Lambright et al.</td><td></td><td></td><td colspan="2"></td></tr> <tr><td></td><td>5,685,624</td><td>Nov. 11, 1997</td><td>Lee</td><td></td><td></td><td colspan="2"></td></tr> <tr><td></td><td>5,692,605</td><td>Dec. 2, 1997</td><td>Lai</td><td></td><td></td><td colspan="2"></td></tr> <tr><td></td><td>6,595,609</td><td>Jul. 22, 2003</td><td>Greiner</td><td></td><td></td><td colspan="2"></td></tr> <tr><td></td><td>Des. 361,430</td><td>Aug. 22, 1995</td><td>Mohundro</td><td></td><td></td><td colspan="2"></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="2"></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="2"></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="2"></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="2"></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="2"></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="2"></td></tr> <tr> <td colspan="8" style="text-align: center;"><b>FOREIGN PATENT DOCUMENTS</b></td> </tr> <tr> <td></td> <td>DOCUMENT NUMBER</td> <td>DATE</td> <td>COUNTRY</td> <td>CLASS</td> <td>SUBCLASS</td> <td colspan="2">TRANSLATION</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>YES</td> <td>NO</td> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="8" style="text-align: center;"><b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b></td> </tr> <tr> <td></td> <td></td> <td colspan="6"></td> </tr> <tr> <td></td> <td></td> <td colspan="6"></td> </tr> <tr> <td colspan="2">EXAMINER</td> <td colspan="6">DATE CONSIDERED</td> </tr> </tbody> </table> |                 |                 |                               |       |                          |                            |    | EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |  |  | 5,411,139 | May 2, 1995 | Victory |  |  |  |  |  | 5,511,873 | Apr. 30, 1996 | Mech |  |  |  |  |  | 5,558,418 | Sep. 24, 1996 | Lambright et al. |  |  |  |  |  | 5,685,624 | Nov. 11, 1997 | Lee |  |  |  |  |  | 5,692,605 | Dec. 2, 1997 | Lai |  |  |  |  |  | 6,595,609 | Jul. 22, 2003 | Greiner |  |  |  |  |  | Des. 361,430 | Aug. 22, 1995 | Mohundro |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>FOREIGN PATENT DOCUMENTS</b> |  |  |  |  |  |  |  |  | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION |  |  |  |  |  |  |  | YES | NO |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | EXAMINER |  | DATE CONSIDERED |  |  |  |  |  |
| EXAMINER INITIAL   | DOCUMENT NUMBER | DATE            | NAME                          | CLASS | SUBCLASS                 | FILING DATE IF APPROPRIATE |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  | 5,411,139       | May 2, 1995     | Victory                       |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  | 5,511,873       | Apr. 30, 1996   | Mech                          |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  | 5,558,418       | Sep. 24, 1996   | Lambright et al.              |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  | 5,685,624       | Nov. 11, 1997   | Lee                           |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  | 5,692,605       | Dec. 2, 1997    | Lai                           |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  | 6,595,609       | Jul. 22, 2003   | Greiner                       |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  | Des. 361,430    | Aug. 22, 1995   | Mohundro                      |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  |                 |                 |                               |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  |                 |                 |                               |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  |                 |                 |                               |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  |                 |                 |                               |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  |                 |                 |                               |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  |                 |                 |                               |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
| <b>FOREIGN PATENT DOCUMENTS</b>  |                 |                 |                               |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  | DOCUMENT NUMBER | DATE            | COUNTRY                       | CLASS | SUBCLASS                 | TRANSLATION                |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  |                 |                 |                               |       |                          | YES                        | NO |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  |                 |                 |                               |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  |                 |                 |                               |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  |                 |                 |                               |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  |                 |                 |                               |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  |                 |                 |                               |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
| <b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>  |                 |                 |                               |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  |                 |                 |                               |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
|  |                 |                 |                               |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |
| EXAMINER   |                 | DATE CONSIDERED |                               |       |                          |                            |    |                  |                 |      |      |       |          |                            |  |  |           |             |         |  |  |  |  |  |           |               |      |  |  |  |  |  |           |               |                  |  |  |  |  |  |           |               |     |  |  |  |  |  |           |              |     |  |  |  |  |  |           |               |         |  |  |  |  |  |              |               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |                 |      |         |       |          |             |  |  |  |  |  |  |  |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |  |                 |  |  |  |  |  |

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